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1056 516 - GAU 4481 HNDA 2023.2 (2003-052(PCT/US) PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Daniel M. Giáquinta et al.
International Application No. PCT/US2004/026847
Serial No. 10/568,516
Confirmation No. 1180
Filed February 15, 2006
International Filing Date June 18, 2004
Priority Date Claimed June 18, 2003
For PLATINUM-COPPER FUEL CELL CATALYST

July 24, 2006

TO THE COMMISSIONER FOR PATENTS, SIR:

## **INFORMATION DISCLOSURE STATEMENT**

In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicants submit the attached PTO/SB/08A for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

Applicants submit herewith copies of the foreign patent documents and/or literature references. Some of the attached Japanese references include English abstracts. Applicants do not make any representation as to the accuracy of the additional information.

The Commissioner is hereby authorized to charge to Deposit Account No. 19-1345 an amount sufficient to cover the fee specified in 37 C.F.R. §1.17(p) for submission of this Information Disclosure Statement, should a fee be required.

Respectfully submitted,

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Derick E. Allen, Reg. No. 43,468

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St. Louis, Missouri 63102

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INFO	RMATIÔN EMENT È	DISCHO	SURE	Filing Date	02-15-2006			
STAT	EMENT E	Y APPL	ICANT	Confirmation Number	1180			
				First Named Inventor	Daniel M. Giaquinta			
(use as	many she	ets as ne	ecessary)	Group Art Unit				
				Examiner Name	Not Yet Assigned			
Sheet	1	of	5	Attorney Docket No.	HNDA 2023. 1			
					(2003-052)			

		U.S	. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document Kind Code (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	1	3,701,687	,	Grubb et al.	10-31-1972
	2	3,711,385		Beer et al.	01-16-1973
	3	4,061,495	Α	Selman et al.	12-06-1977
	4	4,186,110		Jalan et al.	01-29-1980
	5	4,192,907		Jalan et al.	03-11-1980
	6	4,261,742	Α	Coupland et al.	04-14-1981
	7	4,677,035	Α	Fiedler et al.	06-30-1987
	8	4,683,119		Selman et al.	07-28-1987
	9	4,707,229		Dempsey et al.	11-17-1987
	10	4,716,087		Ito et al.	12-29-1987
	11	4,737,205		Selman et al.	04-12-1988
	12	4,781,803		Harris et al.	11-01-1988
	13	4,812,434		Pohlmann et al.	03-14-1989
	14	4,885,216	Α	Naik	12-05-1989
	15	4,885,376		Verkade	12-05-1989
	16	4,954,474		Tsurmi et al.	09-04-1990
	17	4,970,128		Itoh et al.	11-13-1990
	18	4,985,386		Tsurumi et al.	01-15-1991
	19	5,024,905		Itoh et al.	06-18-1991
	20	5,068,161		Keck et al.	11-26-1991
	21	5,077,141	Α	Subhash K. Naik et al.	12-31-1991
	22	5,079,107		Jalan	01-07-1992
	23	5,096,866		Itoh et al.	03-17-1992
	24	5,126,216		Capuano et al.	06-30-1992
	25	5,178,971		Itoh et al.	01-12-1993
	26	5,189,005		Watanabe et al.	02-23-1993

Examiner		Date	
Signature	/Alexander Polyansky/ (08/05/2009)	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Applicant is to place a check mark here if English Translation is attached or place an "A" here if English language abstract is attached.

Receipt date: 07/24/2006

PTO/SB/08	PTO/SB/08A				Complete if Known				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				ion Number	10/568,516				
			Filing Date 0		02-15-2006				
				ation Number	1180				
				med Inventor	Daniel M. Giaquinta				
(use as r	many sh	eets as ne	cessary)	Group A					
	· ,				er Name	Not Yet Assigned			
Sheet	2	of	5	Attorney	Docket No.	HNDA 2023. 1 (2003-052)			
	27	5,225,391			Stonehart et al.	07-06-1993			
:	27		<del></del>		Fisher et al.				
	28	5,246,791			Hisataka Kawai et al.	09-21-1993			
	29	5,516,381		A		05-14-1996			
	30	5,593,934			Stonehart	01-14-1997			
	31	5,635,439			Fukui et al.	06-03-1997			
	32	5,773,162			Surampudi et al.	06-30-1998			
	33	5,876,867			Itoh et al.	03-02-1999			
	34	5,939,220		Α.	Gunner et al.	08-17-1999			
<del>-</del>	35	6,036,791		A	Mitsuhashi et al.	03-14-2000			
	36	6,045,671			Wu et al.	04-04-2000			
	37	6,048,633			Fuji et al.	04-11-2000			
	38	6,127,058			Pratt et al.	10-03-2000			
	39	6,171,721			Narayanan et al.	01-09-2001			
	40	6,183,894			Adzic et al.	02-06-2001			
	41	6,187,164		B1	Warren et al.	02-13-2001			
	42	6,187,468		B1	Shinkai et al.	02-13-2001			
	43	6,225,011		B1	Gotoh et al.	05-01-2001			
	44	6,268,077		B1	Kelley et al.	07-31-2001			
	45	6,294,280		B1	Tanaka et al.	09-25-2001			
	46	6,322,643		B1	Mitsuhashi et al.	11-27-2001			
	47	6,458,741		B1	Roark et al.	10-01-2002			
	48	6,632,299		B1	Harris	10-14-2003			
	49	6,730,350		B2	Finkelshtain et al.	05-04-2004			
	50	2002/0004		A1	Katori et al.	01-10-2002			
	51	2002/0009		A1	Terazono et al.	01-24-2002			
	52	2002/0141		A1	Ruettinger et al.	10-10-2002			
	53	2003/0008		A1	Wessel et al.	01-09-2003			
	54	2003/0045		A1	Ruth et al.	03-06-2003			
	55	2003/0059	666	A1	Kourtakis	03-27-2003			
	56	2004/0142		A1	Haugen et al.	07-22-2004			
					NT DOCUMENTS				
Examiner	Cite	Foreig	n Patent Doo	ument	Name of Patentee or Applie	cant Date of Publication			

Examiner
Signature /Alexander Folyansky/ (08/05/2009)

Date
Considered

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PTO/SB/0	08A			Comple	ete if Known
INFORMATION DISCLOSURE				Application Number	10/568,516
			SURE	Filing Date	02-15-2006
STA	TEMENT E	BY APPLICANT Confirmation Number 1180			1180
				First Named Inventor	Daniel M. Giaquinta
(use as	many she	ets as ne	ecessary)	Group Art Unit	
				Examiner Name	Not Yet Assigned
Sheet	3	of	5	Attorney Docket No.	HNDA 2023. 1
					(2003-052)

Initials	No. <sup>1</sup>	Office	Number⁴	Kind Code (if known)	of Cited Document	of Cited Document MM-DD-YYYY	T <sup>6</sup>
	57	BE	895 174	Α	Johnson Matthey PLC	05-30-1983	
	58	EP	0355853	A2	N.E. Chemcat Corp.	02-28-1990	
	59	EP	0386764	A2	N.E. Chemcat Corp.	09-12-1990	
	60	EP	0469514	A2	N.E. Chemcat Corp.	09-05-1992	
	61	EP	0552587	A1	Stonehart et al.	07-28-1993	
	62	EP	0827225	A2	N.E. Chemcat Corp.	03-04-1998	
	63	EP	0838872	A3	Gunner et al.	04-29-1998	
	64	EP	0855449	A1	Mitsubishi Materials Corp.	07-29-1998	
	65	EP	0858987	B1	Amariglio et al.	08-19-1998	
	66	EP	1080435	B1	Lacy et al.	03-07-2001	
	67	GB	1363888		United Aircraft Corp.	08-21-1974	Α
	68	GB	2 029 857	Α	Johnson Matthey Co Ltd.	03-26-1980	
	69	GB	2 033 925	Α	Johnson Matthey Co Ltd.	05-29-1980	
	70	JP	2003-80085		Sony Corp.	03-18-2003	A√
	71	JP	01 021030	Α	Nippon Mining Co Ltd.	01-24-1989	Α
	72	JP	2001 294959	Α	Mitsubishi Heavy Ind Ltd.	10-26-2001	
	73	JP	2002-289208		Matsushita Electric Ind. Co.	10-04-2002	Α
	74	JP	2003-331855		Tokyo Inst. of Technol	11-21-2003	Α
	75	JP	08 100255	Α	Mitsubishi Materials Corp.	04-16-1996	Α
	76	JP	07 050008	Α	Showa Denko KK	02-21-1995	Α
	77	JP	06 007679	Α	Tanaka Kikinzoku Kogyo KK	01-18-1994	A√
	78	JP	06 065601	Α	Mitsubishi Materials Corp.	03-08-1994	Α
	79	JP	63 149356	Α	Res Inst Electric Magnetic Alloys	06-22-1988	Α
	80	JP	62 107040	Α	Sumitomo Metal Ind Ltd.	05-18-1987	Α
	81	JP	03 127459	Α	Fuji Electric Co. Ltd.	05-30-1991	Α
	82	JP	04 072029	Α	Mitsubishi Materials Corp.	03-06-1992	Α
	83	JP	04 066635	Α	Mitsubishi Materials Corp.	03-03-1992	Α
	84	JP	04 066632	Α	Mitsubishi Materials Corp.	03-03-1992	Α

Examiner		Date	
Signature	/Alexander Polyansky/ (08/05/2009)	Considered	

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PTO/SB/08A			Complete if Known					
				Application Number 10/568,516				
INFOR	RMATIO	N DISCL	OSURE	Filing Da		02-15-2006		
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				First Nan	ned Inventor	Dani	el M. Giaquinta	
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Sheet	4	of	5		Docket No.		A 2023. 1	
	-			(2003-052)				
				<u> </u>		L <b>\</b>		
85 WO 99/16137					Narayanan et al.		04-01-1999	[
	86	WO	00/35037	A1	Johnson Matthey PLC		06-15-2000	
	87	WO	02/22901	A1	Cannon Muskegon Corp		03-21-2002	
	1				T LITERATURE DOCUM		S	
Examiner	Cite				AL LETTERS), title of the art			Ī _
Initials	No. <sup>1</sup>		m (book, magaz	ine, journal,	serial, symposium, catalog, e	etc.), da	ate, page(s), volume-	T <sup>6</sup>
					isher, city and/or country whe	ere pub	lished	
	88				Soc. 1996, 143, 1685	4000	440.457	
	89		COUPLAND et al. – Platinum Metals Review, Vol. 26, No. 4, 1982, pp. 146-157					
	90			Korean Jou	rnal of Materials Research	, Vol.	12, No. 12, 2002,	
		pp. 897-9		Ovidinian	and Dadusing Tractments	on the	Motel Motel	
	91	EPRON,	, "iniliuence of one and on the	Oxidizing a	and Reducing Treatments r Nitrate Reduction of a Pt-	On the Cu Bi	metallic Catalyst"	
:			Catalysis, 2002			Ou Dii	motalilo Gatalyst	
	92				Low Temperature Fuel C	ells Pa	art 1: The Cathode	
	52				/., 2002, 46, (1), pp. 3-14			
	93				lectrode Measurements or	the (	CO Tolerance of a	
					bon Fuel Cell Electrocataly	st", Jo	ournal of the	
					16(4), pp. 1296-1304			ļ
	94				n of High-Surface-Area El			
		_		e Configura	ation", <i>Journal of the Electr</i>	ocnen	nicai Society, 1998,	
	05		p. 2354-2358 SER P. et al.	"Combinat	orial Electrochemical Strat	enies	For the Discovery	<del> </del>
	95	of New F	pun, r. et al., Tuel-Cell Flectr	ode Materi	ials, Proceedings of the Int	egics ernati	onal Symposium	
		on Fuel (	Cells for Vehic	les. 41st B	attery Symposium", <i>The E</i>	lectroc	chemical Society of	
			lagoya 2000, p					
	96	STRASS	SER, P. et al.,	"Combinat	orial Electrochemical Tech	nique	s for the Discovery	
		of New F	Fuel-Cell Catho	ode Materia	als", <i>Direct Methanol Fuel</i> (	Cells, i	Proceedings of the	
				y, 2001, Vo	ol. 2001-4, New Jersey, Za	wodzi	nski, T., eds, pp.	
		191-208						ļ .
	97				Pressure Dependencies of			
					iger Thin Films by Plasma	Polym	nerization", Ber.	
	- 00				4, 1994, pp. 631-635. oplication No. PCT/US200	4/0269	RA7 dated	1
	98		onai Search Ri 2005 - 7 nage	•	ppiication No. FC1/03200	7/0200	JTI UALGU	

Examiner		Date	
Signature	/Alexander Polyansky/ (08/05/2009)	Considered	

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